

Section 1. Identification of the substance/mixture and identification of the company/undertaking

1.1. Product identifier

ERGOPLAST TDO

CAS Number: 6422-86-2
 EC Number: 229-176-9
 Name: bis(2-ethylhexyl) terephthalate
 Registration number: 01-2119446265-39-0013

1.2. Relevant identified uses of the substance or mixture and uses advised against

General use: used as a product plasticiser, softener.

1.3. Details of the supplier of the safety data sheet

Boryszew S.A.
 Branch Boryszew ERG in Sochaczew
 ul. 15 Sierpnia 106; 96-500 Sochaczew
 Tel. 46 863 02 01
 Fax. 46 863 00 96
 website: boryszewerg.com.pl
 email: certyfikacja@boryszewerg.com.pl

1.4. Emergency telephone number

112 (general emergency telephone number)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

The substance is not classified as hazardous

Substance name	According to the Regulation (EC) 1272/2008
bis(2-ethylhexyl) terephthalate	Not classified

Hazards for human health or life:

The product is not classified as hazardous for human.

Hazards for the environment:

The product is not classified as hazardous for the environment.

Other hazards:

None.

2.2. Label elements

According to the Regulation (EC) 1272/2008:

Pictograms: Not applicable

Warning phrase: Not applicable

Risk phrases: Not applicable

precautionary statements:

P270 - Do not eat, drink and smoke when using the product.

P281 - Use required personal protective equipment.

P314 - If feeling unwell seek medical advice/attention.

P404 - Store in a closed container.

P501 - Dispose the contents/container into a collective waste container for recycling or disposal in accordance with the current regulations.

2.3. Other hazards

Product does not meet the criteria for PBT or PvB according to Annex XIII of REACH Regulation.

Section 3. Composition / information on ingredients**3.1. Substances**

Substance name	Concentration range [%]	CAS Number:	EC Number:	Regulation (EC) No. 1272/2008 (CLP)
bis(2-ethylhexyl) terephthalate*	> 98	6422-86-2	229-176-9	-

* Registration number: 01-2119446265-39-0013

3.2. Mixtures

Not applicable

Section 4. First aid measures**4.1. Description of first aid measures**

Swallowing: seek medical help immediately. Do not induce vomiting. If the affected person is conscious, give 2 to 4 cups of water or milk to drink.

Inhalation: Move/bring the affected person to fresh air. If the breathing has stopped, apply the artificial respiration method. If the person has still difficult breathing, give oxygen. Seek medical help.

Skin: Remove contaminated clothing. Wash skin with plenty of water and soap.

Eye: Immediately wash eyes with plenty of running water.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

In the event of any symptoms, immediately call a physician or transport the affected person to hospital. Show the packaging or label to the physician.

Section 5. Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media: extinguishing powder, carbon dioxide, foam, water – dispersed jets.

Unsuitable extinguishing media: not known.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Protective clothing made of coated materials and a breathing apparatus. Do not allow contaminated water or other extinguishing media to enter the drains.

Section 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear personal protective equipment: protective clothing made of coated materials, safety glasses, protective gloves and a breathing apparatus. Avoid direct contact with the releasing substance. Do not inhale vapours.

6.2. Environmental precautions

Do not allow the product to enter sewage and water; protect the drains; avoid direct contact with the released substance; remove sources of ignition (extinguish open fire, prohibit smoking); dilute vapours with dispersed water jets; if possible, eliminate the leakage (close the flow of liquid, seal, put damaged packaging in a tight protective container).

Avoid direct contact with the releasing substance. In the event of large amount of product is released or environmental contamination, notify relevant authorities and chemical rescue services.

6.3. Methods and materials to for containment and cleaning up

Embank large amount of the released product and pump out to labelled containers. Cover small amount of liquid with a non-flammable absorbent and collect into a labelled, tightly closed waste container. Wash the leakage area with water. Put damaged containers in the waste container.

6.4. References to other sections

Personal protective measures - see section 8, unsuitable extinguishing agents - see section 5.

Waste handling - see section 13.

Section 7. Handling and storage**7.1. Precautions for safe handling**

Observe the Occupation Health and Safety regulations on handling chemicals. Substance handling: do not eat, drink, avoid contact with the substance, follow the rules of personal hygiene, use personal protective equipment, work in well-ventilated rooms. Avoid contact with fire and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed, properly labelled packagings. Prohibit smoking, using open fire and eating in the place of product storage.

7.3. Specific end uses

No data available on special uses.

Section 8. Exposure controls / personal protection**8.1. Control parameters**

MAC value for bis(2-ethylhexyl) terephthalate not determined.

DNEL

- employee, long-term exposure through the skin: 6.58 mg/kg bw/day
- employee, long-term exposure by inhalation: 23.2 mg/m³,
- general public, short-term exposure through the skin: 3.95 mg/kg bw/day
- general public, short-term exposure by inhalation: 6.86 mg/m³,
- general public, short-term exposure by ingestion: 3.95 mg/kg bw/day

PNEC

- freshwater environment: 0.08 µg/l
- seawater environment: 0.008 µg/l
- sludge (freshwater): 8.28 mg/kg
- sludge (seawater): 15 µg/kg
- wastewater treatment plant environment: 1 mg/l

8.2. Exposure control

Provide appropriate general ventilation in warehouse facilities and workstations. Prevent eye and skin contamination.

Personal Protective Equipment: Do not eat, drink, smoke during product handling, do not take medication during work

Respiratory protection: protective mask.

Hand protection: gloves protecting from the chemicals.

Eye protection: goggle type protective glasses.

Skin protection: protective coats.

Section 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

appearance	oily liquid, colourless to straw-yellow
odour	not determined
odour threshold	not determined
pH	not determined

freezing point	< -67.2°C
melting point	not determined
initial boiling point	375°C
boiling temperature range	not determined
ignition temperature	min. 210°C
auto-ignition temperature	387°C
evaporation rate	not determined
flammability	not applicable
explosion limits	not determined
vapour buoyancy	very low volatility
vapour density to air	not determined
density	0.980 ÷ 0.985 g/cm ³ (at 20°C)
solubility	slight
partition coefficient: n-octanol/water log Pow:	8.39
ignition point	not determined
decomposition temperature	not determined
viscosity	65.8 mPa s (at 25°C)
explosive properties	not determined
oxidising properties	not determined

9.2. Other information

None

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Product stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

Possible decomposition at elevated temperatures.

10.4. Conditions to avoid

Elevated temperature.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

Carbon oxide, carbon dioxide.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Rat - LD₅₀: > 5,000 mg/kg

Acute toxicity-inhalation

Rat, 6h - LCL₀: > 0.0718 mg/l

Acute toxicity-skin

Guinea Pig - LD₅₀: > 20 ml/kg

Irritation-skin:

Rabbit after 4h – no irritation,
Guinea pig after 24 h - light irritation,
Human after 24 hours – no irritation.

Irritation - eyes:

Rabbit - light irritation.

Sensitization:

Skin: human, guinea pig - non-sensitizing,
Mutagenicity: evaluation of the results: negative
Repeated dose toxicity NOEL (rat in food 90d - 277mg/kg/day)

Section 12. Ecological information**12.1. Toxicity****Fish**

Acute toxicity 7 days NOEC \geq 0.25 mg/L
Acute toxicity 96h NOEC \geq 984 mg/L
Acute toxicity 60 days NOEC \geq 0.28 mg/L

Aquatic invertebrates

Acute toxicity 48h (*Daphnia*) NOEC \geq 0.0014 mg/L
Acute toxicity 96h (*Cassotrea*) NOEC \geq 0.624 mg/L, (*Helisoma*) NOEC \geq 984 mg/L
Toxicity 21 days (*Daphnia*) NOEC \geq 0.00076 mg/L

Algae and aquatic plants

Toxicity 72h (Alga) NOEC \geq 0.86 mg/L

12.2. Persistence and degradability

Easily biodegradable. Biodegradability (28 days) at the level of 73.05%, formation of CO₂.

12.3. Bioaccumulative potential

Biodegradability factor BCF: 393. Biodegradability measured for Eastern Oyster for 14 days.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

No data available

Section 13. Disposal considerations**13.1. Waste treatment methods**

Do not discharge into drains. Do not allow the substance to enter surface or ground water. Product waste to be collected for disposal (recycling) or incinerate in appropriate plants.
Used packaging should be submitted to the packaging waste recycling companies.

Classification to be specified according to the place of manufacture as per criteria defined by the applicable regulations. If the product was used in any further operations/processes, the end user should define the produced waste and assign the correct code.

Section 14. Transport information

The product is not classified in the hazardous materials list. The product is not subject to the ADR regulations.

14.1. UN number

None

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Section 15. Regulatory information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Text with EEA relevance)

Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (Text with EEA relevance).

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on waste.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

Section 16. Other information

Explanation of abbreviations and acronyms:

MAC	-	Maximum acceptable concentration.
LOAEL	-	Lowest observed level of hazardous effect
NOEL	-	Level of exposure causing no effect
DNEL	-	Derivative of the level of exposure causing no adverse effects
DMEL	-	Derivative of a minimum level of exposure, at which specific effects occur

P270	-	Do not eat, drink and smoke when using the product.
P281	-	Use required personal protective equipment.
P314	-	If feeling unwell seek medical advice/attention.
P404	-	Store in a closed container.
P501	-	Dispose the contents/container into a collective waste container for recycling or disposal in accordance with the current regulations.

Date revised – 6.02.2017 – according Commission Regulation (EU) 2015/830

Section 1.1, 3.1 – registration number

The above information were created based on the current data describing the product, as well as the producer's experience and knowledge in this area. This information is to be treated as a supporting information in safe handling during transport, storage and product use. However, this does not indemnify the user from the responsibility for the incorrect usage of the above information and adherence to all relevant regulations.